

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of transmitting information with verification of transmission errors, comprising the steps of:

~~wherein a useful information message is transmitted~~ transmitting in a determined frame ~~a useful information message while being~~ associated with a determined number  $p$  of transmission error verification bits also transmitted in said determined frame,

~~wherein a determined number  $p_1$  of said  $p$  transmission error verification bits form~~ obtaining a seal ~~obtained~~ from the useful information message using a determined sealing function, the seal forming a determined number  $p_1$  of said  $p$  transmission error verification bits where  $p_1$  is a number less than  $p$ , and

~~wherein the  $p - p_1$  remaining transmission error verification bits form~~ calculating a cyclic redundancy code ~~calculated~~ from the useful information message formed using the  $p - p_1$  remaining transmission error verification bits.

2. (Currently Amended) The method according to claim 1 wherein the  $p_1$  transmission error verification bits are calculated at the ~~MAC~~ Medium Access Control (MAC) protocol layer, and are then delivered to a channel coder at the physical layer.

3. (Currently Amended) The method according to claim 1, wherein the seal is obtained by truncating to  $p_1$  the result of the sealing function which is obtained on a number of bits greater than  $p_1$ .

4. (Currently Amended) The method according to claim 3, wherein the sealing function is of Hash Message Authentication Code or Hash-MAC type with key, with a Hash function selected from the group comprising ~~the MD5~~ a Message-Digest Algorithm 5 (MD5) function, ~~the SHA-1~~ a Secure Hash Algorithm 1 (SHA-1) function, ~~the SHA-256~~ a Secure Hash Algorithm 256 (SHA-256) function and sealing functions designed on the basis of a block encryption algorithm.

5. (Currently Amended) The method according to claim 1, wherein the results of the sealing function is obtained directly on p1 bits.

6. (Currently Amended) The method according to claim 5, wherein the sealing function comprises ~~the~~ a combination of a pseudorandom generation function and of a non-linear coding function.

7. (Currently Amended) A device for transmitting information with verification of transmission errors, comprising:

means for transmitting in a determined frame a useful information message associated with a determined number  $p$  of transmission error verification bits also transmitted in said determined frame, and

means for obtaining a seal from the useful information message using a determined sealing function, which seal forms a determined number  $p_1$  of said  $p$  transmission error verification bits, where  $p_1$  is a number less than  $p$ , the  $p-p_1$  remaining bits forming a cyclic redundancy code calculated from the useful information message.

8. (Currently Amended) The device according to claim 7, comprising means for calculating the  $p_1$  transmission error verification bits at the MAC protocol layer, as well as a channel coder to which said  $p_1$  bits are delivered at the physical layer.

9. (Currently Amended) The device according to claim 7, comprising means for obtaining the seal by truncating to  $p_1$  the result of the sealing function which is obtained on a number of bits greater than  $p_1$ .

10. (Currently Amended) The device according to claim 9, wherein the sealing function is of Hash-MAC type with key, with a Hash function selected from the group comprising ~~the~~ a MD5 function, ~~the~~ a SHA-1 function, ~~the~~ a SHA-256 function and sealing functions designed on the basis of a block encryption algorithm.

11. (Currently Amended) The device according to claim 7, comprising means for obtaining the result of the sealing function directly on p1 bits.

12. (Currently Amended) The device according to claim 11, wherein the sealing function comprises ~~the~~ a combination of a pseudorandom generation function and of a non-linear coding function.

13. (Previously Presented) Radiocommunications equipment comprising a device according to claim 7.